

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



Reserve
A 292.9
So 3 Wat

Water Supply Outlook For Idaho



SOIL CONSERVATION SERVICE
U.S. DEPARTMENT OF AGRICULTURE

Cooperating with

IDAHO SOIL CONSERVATION DISTRICTS
IDAHO DEPARTMENT OF WATER RESOURCES

AS OF
JAN. 1, 1981

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: Snow surveyors making special measurements of the snowpack near Mt. St. Helens Volcano, Washington, April 1980.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, 230 N. First Ave., Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno, Nevada 89505
Oregon	1220 S. W. Third Ave., Portland, Oregon 97204
Utah	4420 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U. S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Snow Surveys Branch, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR IDAHO

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

NORMAN A. BERG

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D. C.

|||||
Released by

AMOS I. GARRISON, JR.

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
BOISE, IDAHO

In Cooperation with

C. STEPHEN ALLRED

DIRECTOR
IDAHO DEPARTMENT OF WATER RESOURCES

|||||
Report prepared by

JACK A. WILSON, Snow Survey Supervisor
GERALD A. BEARD, Asst. Snow Survey Supervisor
KATHERN G. WOOTTON, Statistical Assistant

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
ROOM 345, 304 N. 8th. ST.
BOISE, IDAHO 83702

WATER SUPPLY OUTLOOK for IDAHO



GENERAL STATEMENT FOR JANUARY 1, 1981

Snow measurements taken at selected snow courses near January 1, 1981 indicate an extremely variable snow cover throughout Idaho. Snow accumulation varies greatly by elevation and geographically.

The snowpack is well below normal on all watersheds south of the Snake River from the Oregon line east to the Wyoming border. Also the Clearwater and Spokane watersheds in north Idaho have a well below normal snow cover. Several low and middle elevation sites in these areas are bare of snow for the first time on record. Snow cover on these watersheds varies from a low of 37 and 39 percent of average on the Bruneau and Spokane drainages respectively to 58 percent of normal on the Jordan Creek-Owyhee River drainage in southwestern Idaho. The Big and Little Wood and Big and Little Lost River watersheds in central Idaho are near normal at 97 and 108 percent of average respectively. All other drainages north of the Snake River and south of the Clearwater from the Oregon border to the Montana and Wyoming lines on the east are below average, ranging from 70 percent of average on the Teton drainage to 88 percent of normal on the Salmon River watershed. The Priest River and Pack River watersheds in far northern Idaho are also near 80 percent of normal.

Precipitation and temperatures averaged well above normal for Idaho during December. Precipitation was nearly double normal in northern

Idaho and less than half of average in the southeastern portion of the state. Kellogg reported 195 percent, McCall 175 percent and Salmon 152 percent of normal while Pocatello received only 37 percent of average for the month.

In general temperatures ranged up to 5° warmer than normal. The greatest variant however was not the low altitude temperatures but the freezing level elevation which was very high most of the month. During the late December storms when most of the precipitation fell, the freezing level was between 8 and 11 thousand feet. This meant that most of the precipitation fell as rain, which, combined with warm temperatures, removed much of the low and middle elevation snowpack.

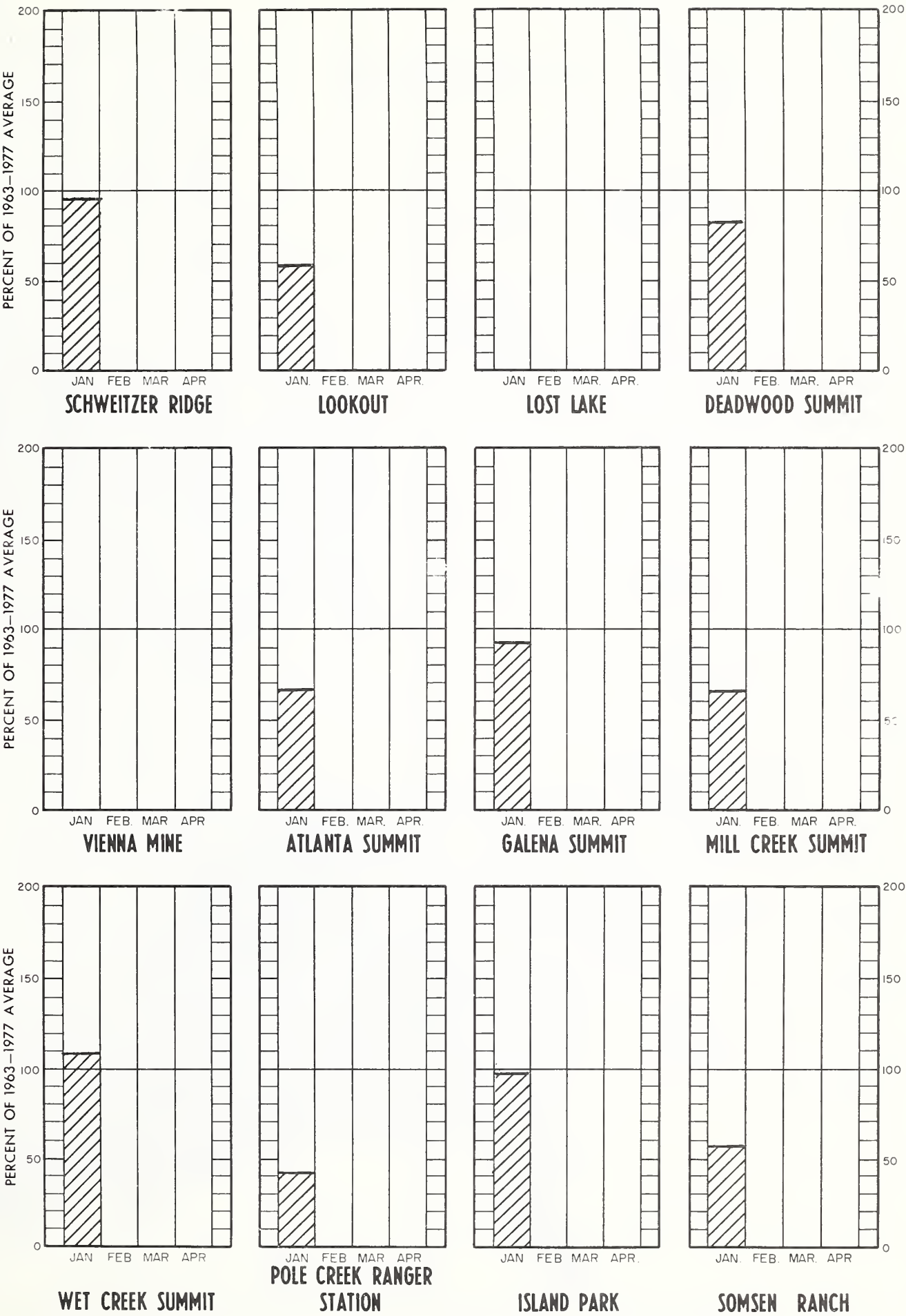
This combination of rain and melting snow resulted in rapid and excessive runoff in many areas with some flooding conditions in some locations.

Reservoir storage is good to excellent with combined storage of 16 irrigation reservoirs holding 110 percent of average as of January 1, 1981. This represents 71 percent of total usable capacity.

Seasonal runoff predictions for 1981 combined with the good storage indicate an adequate water supply for irrigation in most areas of Idaho. Local shortage may exist where storage facilities are not available.

SNOW WATER DEPTHS ACCUMULATION
For Selected Snow Courses
As Compared To 1963 – 1977 15 Year Average

JANUARY 1, 1981



COMPARISON of SNOW COVER

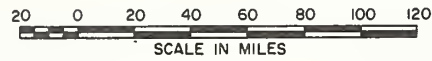
RIVER BASIN WATERSHED	NO. OF COURSES AVERAGED	THIS YEARS SNOW WATER EXPRESSED AS PERCENT OF :	
		LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA RIVER BASIN</u>			
Kootenai River - Montana	6	116	77
Pend Oreille River	51	117	69
Clark Fork River	28	135	59
Flathead River	11	114	76
Priest River	4	95	80
Spokane River	3 - 4	80	39
<u>LOWER SNAKE RIVER BASIN</u>			
Clearwater River	9 - 12	81	49
Salmon River	11	124	88
<u>MIDDLE SNAKE RIVER BASIN - Northside</u>			
Little Lost River	3	-	108
Big Lost River	4	202	-
Little Wood River	3 - 4	147	97
Big Wood River	7 - 9	134	97
Boise River	10 - 12	99	73
Payette River	11 - 12	105	82
Weiser River	1	161	80
<u>MIDDLE SNAKE RIVER BASIN - Southside</u>			
Raft River	1	63	45
Salmon Falls Creek	4	58	52
Bruneau River	2	40	37
Owyhee River	4	77	51
Jordan Creek	1	45	58
<u>UPPER SNAKE RIVER BASIN</u>			
Snake Basin - Above Palisades Res.	16	-	71
Camas-Beaver Creeks	2	146	75
Henrys Fork River	7	136	80
Teton River	4 - 6	113	70
Willow Creek	8	31	-
Blackfoot River	2	87	51
<u>GREAT BASIN</u>			
Bear River - Upper	3	90	46
Bear River - Lower	11	81	48
Montpelier Creek	4	103	41
Cub River	3	80	42

SNOW WATER DEPTHS

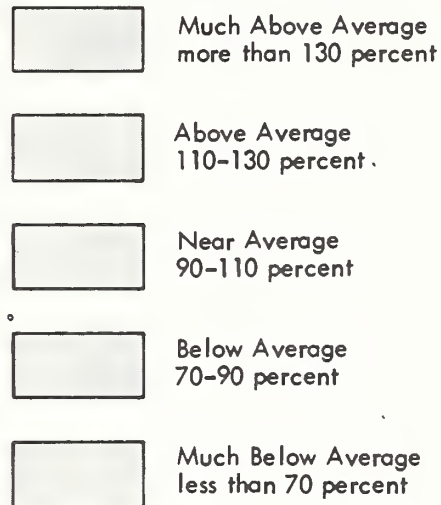
As percent of 1963-77 15 year average

JANUARY 1, 1981

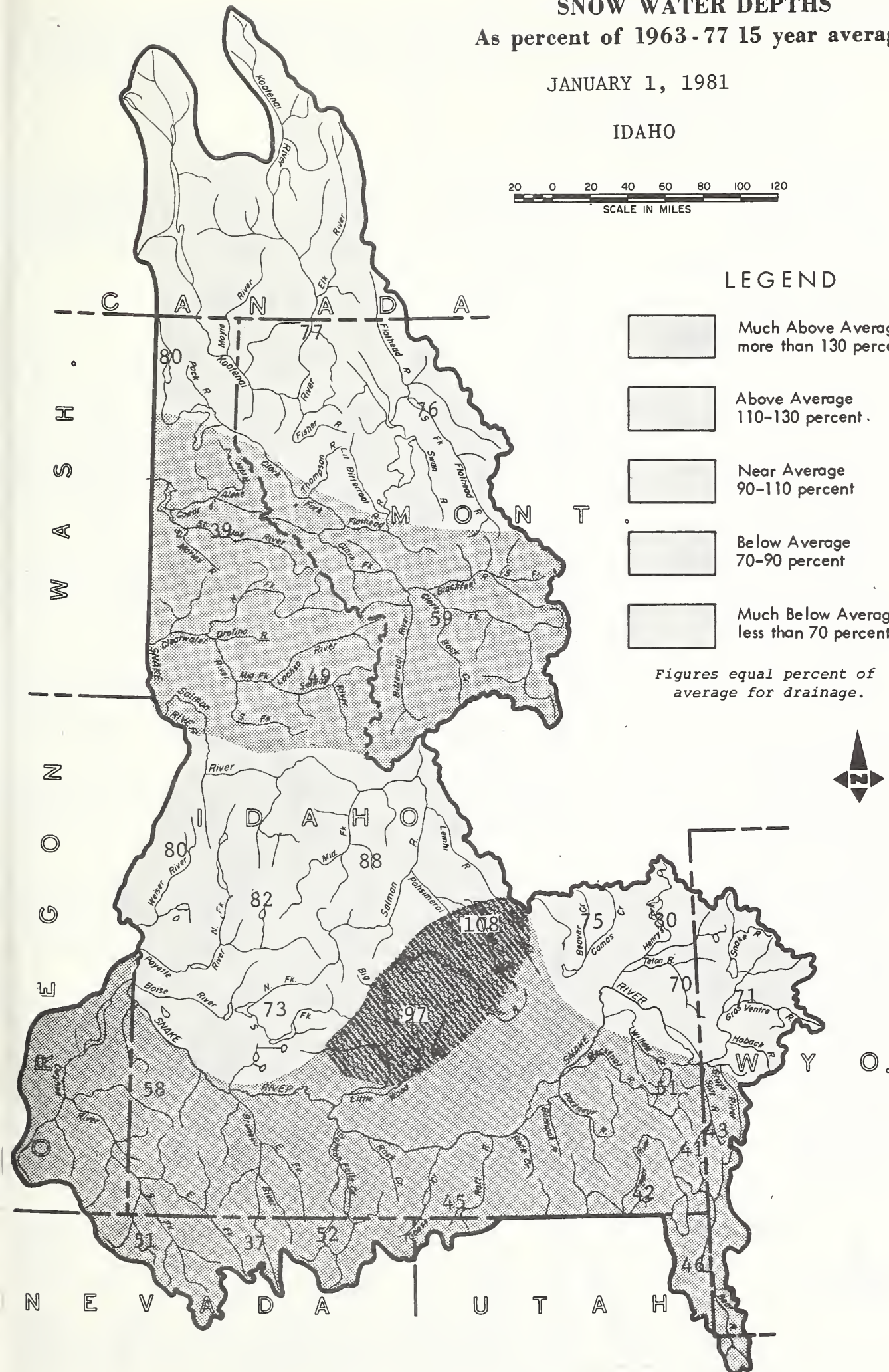
IDAHO



LEGEND



Figures equal percent of
average for drainage.



RESERVOIR STORAGE (1,000 Ac. Ft.)

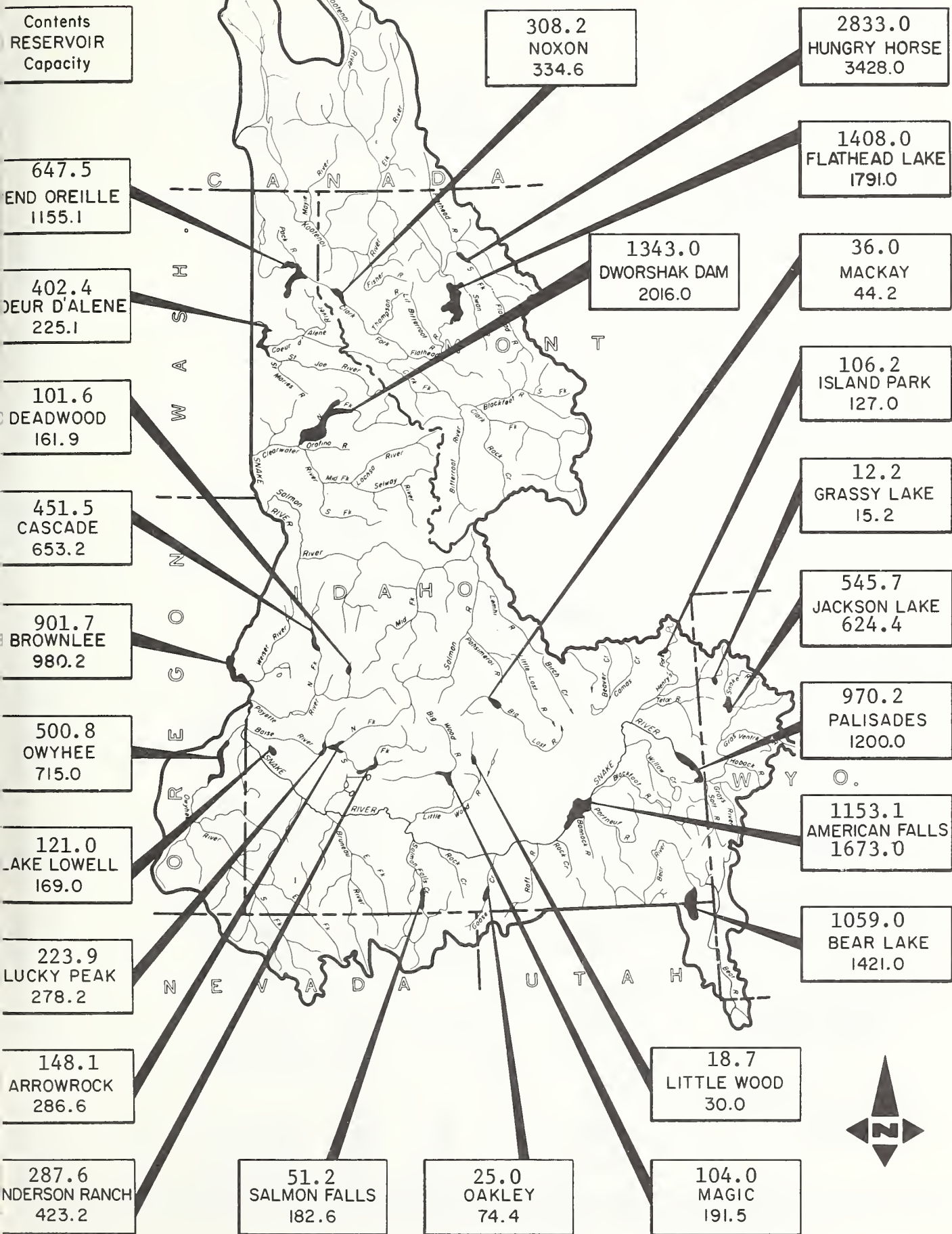
RESERVOIR	USABLE CAPACITY	MEASURED (First of Month)		
		THIS YEAR	LAST YEAR	1963-77 AVERAGE
<u>UPPER COLUMBIA BASIN</u>				
<u>Clark Fork - Pend Oreille</u>				
Hungry Horse	3428.0	2833.0	1610.0	2624.0
Flathead	1791.0	1408.0	548.9	1428.0
Pend Oreille	1155.1	647.5	145.5	331.1
Noxon	334.6	308.2	223.0	318.7
<u>Spokane</u>				
Coeur d'Alene	225.1	--	88.2	129.9
<u>SNAKE BASIN</u>				
<u>Snake</u>				
Jackson Lake	624.4	545.7	511.0	599.7
Palisades	1200.0	970.2	778.0	897.8
American Falls	1673.0	1153.1	726.5	1019.3
Island Park	127.0	106.2	70.1	92.4
Grassy Lake	15.2	12.2	10.8	10.1
Brownlee	980.2	901.7	688.1	808.1
<u>Goose-Trapper Creeks</u>				
Oakley	74.4	25.0	29.5	23.5
<u>Salmon Falls Creek</u>				
Salmon Falls	182.6	51.2	30.4	45.7
<u>Big Lost</u>				
Mackay	44.2	36.0	17.8	26.7
<u>Big Wood</u>				
Magic	191.5	104.0	14.5	98.4
<u>Little Wood</u>				
Little Wood	30.0	18.7	9.0	14.0
<u>Fish Creek</u>				
Carey Valley	14.4	4.8	2.0	--
<u>Boise</u>				
Anderson Ranch	423.2	287.6	208.1	301.1
Arrowrock	286.6	148.1	159.3	216.8
Lucky Peak	278.2	223.9	25.2	53.1
Lake Lowell (Deer Flat)	169.0	121.0	84.8	116.1
<u>Owyhee</u>				
Owyhee	715.0	500.8	459.4	405.5
<u>Payette</u>				
Cascade	653.2	451.5	218.7	379.0
Deadwood	161.9	101.6	50.0	74.3
<u>Weiser</u>				
Mann Creek	11.1	4.6	2.1	--
<u>Clearwater</u>				
Dworshak	2016.0	1343.0	1028.1	--
<u>GREAT BASIN</u>				
<u>Bear</u>				
Bear Lake	1421.0	1059.0	937.8	971.8

RESERVOIR STORAGE

USABLE CONTENTS (1,000 Acre Feet)

JANUARY 1, 1981

50 0 50 100 150
SCALE IN MILES



STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

UPPER COLUMBIA BASIN

KOOTENAI RIVER

Leonias	(at)	9590	108	Apr-Sep	--	8858
		8350	108	Apr-Jul	--	7708
		6600	108	Apr-Jun	--	6114

PEND OREILLE RIVER

Clark Fork River

Whitehorse Rapids	(at)	11600	84	Apr-Sep	--	13781
		10500	84	Apr-Jul	--	12519
		8930	84	Apr-Jun	--	10633

Priest River

Priest River <u>1</u> /	(at)	799	95	Apr-Jul	--	841
-------------------------	------	-----	----	---------	----	-----

SPOKANE RIVER

Post Falls <u>2</u> /	(at)	1750	60	Apr-Sep	--	2910
-----------------------	------	------	----	---------	----	------

St. Joe River

Calder	(at)	785	60	Apr-Sep	--	1309
		740	60	Apr-Jul	--	1238

SNAKE RIVER BASIN

SNAKE RIVER - MAIN STEM

Moran <u>3</u> /	(at)	825	91	Apr-Sep	--	903
Palisades Inflow <u>3</u> /		3520	91	Apr-Sep	--	3863
Heise <u>4</u> /	(nr)	3820	90	Apr-Sep	--	4247
Blackfoot <u>5</u> /	(nr)	4100	90	Apr-Jul	--	4579

Henry's Fork

Ashton <u>6</u> /	(nr)	650	88	Apr-Sep	--	737
Rexburg <u>7</u> /	(nr)	1330	87	Apr-Sep	--	1534

Salmon Falls Creek

San Jacinto	(nr)	40	42	Mar-Sep	--	95
		38	42	Mar-Jul	--	90

Bruneau River

Hot Springs	(nr)	130	52	Mar-Sep	--	251
-------------	------	-----	----	---------	----	-----

Little Lost River

Howe	(nr)	38	84	Apr-Sep	--	45
	(bl)	22	85	Apr-Jun	--	26
		35	85	Apr-Sep	--	41

(c) Assuming normal meteorological conditions.

1963-1977 period.

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR			PAST RECORD		
		FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET		
		Thousand Acre Feet	Percent of Average		Last Year	Average [†]	
BASIN, STREAM and/or FORECAST POINT							
<u>Big Lost River</u>							
Howell Ranch	(at)	215	96	Apr-Sep	--	225	
		150	97	Apr-Jun	--	154	
Mackay <u>8/</u>	(nr)	190	93	Apr-Sep	--	204	
<u>Big Wood River</u>							
Magic Reservoir		285	89	Apr-Sep	--	319	
Inflow <u>9/</u>		290	87	Mar-Jul	--	332	
<u>Little Wood River</u>							
Carey <u>10/</u>	(nr)	93	87	Apr-Sep	--	107	
		76	87	Apr-Jun	--	87	
<u>Boise River</u>							
Twin Springs	(nr)	585	80	Apr-Sep	--	733	
		540	80	Apr-Jul	--	676	
Boise <u>11/</u>	(nr)	1325	80	Apr-Sep	--	1656	
		1090	80	Apr-Jun	--	1360	
		1230	80	Apr-Jul	--	1536	
<u>South Fork</u>							
Anderson Dam <u>12/</u>	(at)	485	78	Apr-Sep	--	622	
<u>Owyhee River</u>							
Gold Cr., Nev. <u>13/</u>	(nr)	15	63	Apr-Jul	--	23	
Owyhee, Nev. <u>13/</u>	(nr)	50	63	Apr-Jul	--	80	
Lake Owyhee		270	69	Apr-Sep	--	392	
net inflow <u>14/</u>		430	74	Feb-Jul	--	578	
<u>Payette River</u>							
Horseshoe Bend <u>15/</u>	(nr)	1620	87	Apr-Sep	--	1860	
<u>North Fork</u>							
Cascade <u>16/</u>	(at)	490	87	Apr-Sep	--	564	
Banks <u>16/</u>	(nr)	630	87	Apr-Sep	--	726	
<u>Weiser River</u>							
Weiser	(nr)	430	77	Mar-Sep	--	558	
<u>Salmon River</u>							
Whitebird	(at)	6680	93	Apr-Sep	--	7196	
<u>Clearwater River</u>							
Spalding	(at)	7110	82	Apr-Sep	--	8672	

(c) Assuming normal meteorological conditions.

- 1963-1977 period.

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST ^c		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average [†]

GREAT BASINBEAR RIVER

Harer (at) 250 75 Apr-Sep -- 332

Montpelier Creek

Montpelier (nr) 8.8 71 Apr-Sep -- 12.4

Cub River

Preston (nr) 36 72 Apr-Sep -- 50

34 72 Apr-Jul -- 47

Cooperative forecasts released by Soil Conservation Service and National Weather Service.

- 1/ Observed flow corrected for storage in Priest Lake.
- 2/ Observed flow corrected for storage in Coeur d'Alene Lake.
- 3/ Corrected for storage in Jackson Lake
- 4/ Corrected for storage in Jackson Lake and Palisades.
- 5/ Corrected for storage in Jackson Lake, Palisades, Island Park, Henry's Lake, Grassy Lake and diversions between Heise and Blackfoot.
- 6/ Corrected for storage in Henry's Lake and Island Park Reservoir.
- 7/ Corrected for storage in Henry's Lake, Island Park, Grassy Lake and diversions between Ashton and Rexburg.
- 8/ Observed flow corrected for storage in Mackay Reservoir.
- 9/ Combined flow Big Wood River nr. Bellevue and Camas Creek nr. Blaine.
- 10/ Corrected for storage in Little Wood Reservoir.
- 11/ Corrected for storage in Arrowrock, Anderson Ranch and Lucky Peak.
- 12/ Corrected for storage in Anderson Ranch Reservoir.
- 13/ Corrected for storage in Wildhorse Reservoir.
- 14/ From WPRS records of inflow.
- 15/ Corrected for storage in Cascade and Deadwood Reservoirs.
- 16/ Corrected for storage in Cascade Reservoir.

(c) Assuming normal meteorological conditions.

[†] 1963-1977 period.

C A N A D A



INDEX to SNOW COURSES

UPPER COLUMBIA BASIN

LOWER SNAKE BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
-----	-------	------	--------------	-------------------	---------------	------

KOOTENAI RIVER

I6A7	I	Halverson Creek	3	57N	3E	4850
I6A1	I	Smith Creek	29	64N	3W	4800

PEND OREILLE-PRIEST RIVER

16A8S	I	Bear Mountain	9	57N	3E	5400
16A2	I	Benton Meadow	27	58N	4W	2370
I6A3	I	Benton Spring	30	58N	3W	4920
16A10S	I	Schweitzer Basin	18	58N	2W	6090
16A6	I	Schweitzer Bowl	20	58N	2W	4800
16A5	I	Schweitzer Ridge	19	58N	2W	6200

HAYDEN CREEK

16B8	I	Chilco Ridge	15	52N	2W	3650
16B7	I	Conie Ridge	22	52N	2W	3900
I6B9	I	Corner Creek	22	52N	2W	3150
I6B6	I	Sage Creek Saddle	10	52N	2W	4080

SPOKANE RIVER

15B8	I	Above Burke	11	48N	5E	4100
15B7	I	Above Roland	35	47N	6E	4350
15B6	I	Below Roland	35	47N	6E	3920
16B2	I	Copper Ridge	6	50N	1W	4820
I6B3	I	Fourth of July Summit	6	49N	1W	3200
15B13A	I	Granite Peak	4	42N	8E	6000
I6B5A	I	Kellogg Peak	19	48N	3E	5560
I5B2S	I	Lookout	4	47N	6E	5140
16B1	I	Lower Sands Creek	32	51N	1W	3120
16A4AS	I	Mosquito Ridge	5	54N	2E	5200
15B5A	I	Roland Summit	26	47N	6E	5120
16C1S	I	Sherwin	28	42N	1E	3200
15B9AS	I	Sunset	33	49N	5E	5540

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
-----	-------	------	--------------	-------------------	---------------	------

PALOUSE RIVER

I6C3	I	East Twin	13	40N	5W	4130
16C2	I	Moscow Mountain	18	40N	4W	4410
16C4	I	West Twin	14	40N	5W	4220

CLEARWATER RIVER

15B20SR	I	Breezy Saddle	1	43N	4E	5010
15D5	I	Buck Meadows	27	31N	8E	5650
15C3S	I	Cayuse Airstrip	4	38N	11E	3500
15C7S	I	Coolwater Mountain	31	33N	8E	6040
15C9A	I	Crater Meadows	11	37N	9E	5960
14C11	I	Crooked Fork	27	37N	14E	3610
16C15	I	Elk Butte	6	40N	3E	5550
15C2A	I	Fish Lake Airstrip	34	35N	11E	5650
15B3A	I	Forty-nine Meadows	6	43N	5E	4830
14C9A	I	Goat Lake	4	38N	13E	6500
16C6SR	I	Hemlock Butte	7	36N	7E	5810
15C10S	M	Hoodoo Basin	17	14N	27W	6000
15C1	M	Hoodoo Creek	16	14N	27W	5900
I4D3	I	Kit Carson Pasture	4	27N	15E	4950
16C17	I	Kruze Meadows	11	32N	4W	4780
I4C5S	I	Lolo Pass	16	38N	15E	5240
15B14S	I	Lost Lake	9	43N	4E	6110
15D6S	I	Mountain Meadows	9	27N	10E	6360
14D1	M	Nez Perce Pass	25	1S	24W	6570
15C5	I	Pierce Ranger Station	2	36N	5E	3080
14C4	I	Savage Pass	18	36N	15E	6170
15C4S	I	Shanghai Summit	7	37N	6E	4600
16C18	I	Soldier Meadows	33	33N	3W	4650
16C19	I	Webb Creek	36	33N	3½W	4720

SALMON RIVER

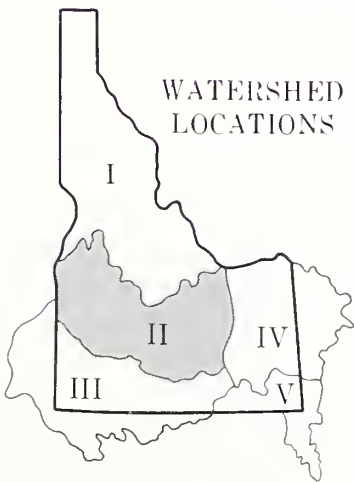
13E19	I	Above Gilmore	13	13N	26E	8240
13E21A	I	Aspen-Hall Pass	6	16N	28E	8200
16E11S	I	Bear Basin	30	19N	3E	5350
15E2S	I	Big Creek Summit	24	15N	5E	6580
13E8A	I	Borah	21	10N	23E	8250
16D6	I	Brundage Mountain	6	19N	3E	7560
13E17	I	Copes Camp	36	18N	22E	7520
13E25A	I	Double Springs Pass	3	10N	22E	8400
13D2	M	Gibbons Pass	4	2S	19W	7100
13E20	I	Hall Creek	1	16N	27E	7560
13E24A	I	Leatherman Pass	20	9N	23E	9860
I3E1	M	Lemhi Pass	9	10S	15W	7480
13E23S	M	Lemhi Ridge	4	10S	15W	8100
I3E18S	I	Meadow Lake	26	13N	26E	9150
14E1S	I	Mill Creek Summit	8	13N	17E	8800
13D16S	I	Moose Creek	14	27N	21E	6200
14E4S	I	Morgan Creek	31	18N	19E	7600
13E26	I	Morse Creek Sawmill	8	15N	23E	7120
14D5	I	Perreau Meadows	23	21N	20E	8500
14E7	I	Redfish Lake Flat	35	10N	13E	6560
I3E16	I	Schwartz Lake	34	18N	22E	8540
14E3A	I	Twin Peaks	28	15N	17E	9190
14F4S	I	Vienna Mine	1	5N	13E	8960
14D4	I	Williams Creek Summit	34	21N	20E	7990

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN NORTHSIDE



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aerial Snow Depth Gage

INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN NORTHSIDE

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
LITTLE LOST RIVER						
13E5	I	Fairview Guard Station	27	12N	26E	6750
13E10S	I	Hilts Creek	15	8N	25E	8000
13E3	I	Lost-Garfield	3	11N	26E	6600
13E6S	I	Moonshine	31	13N	26E	7440
13E4	I	Sawmill Canyon	17	12N	26E	7000
13E7	I	Wet Creek Summit	15	8N	25E	7680

BIG LOST RIVER						
13F3S	I	Bear Canyon	22	5N	21E	7900
13F2	I	Copper Basin	26	6N	21E	7640
13F20	I	Dry Fork	23	3N	23E	7220
13F8	I	Fishpole Lake	28	4N	22E	9300
13F11	I	Iron Bog	23	4N	22E	7650
13F12	I	Leadbelt	34	4N	23E	6700
14F3S	I	Lost Wood Divide	25	6N	18E	7900
14F2S	I	Stickney Mill	9	6N	19E	7430

BIG WOOD RIVER						
15F9	I	Camas Creeks Divide	11	2S	9E	5710
15F15	I	Chimney Creek	9	1N	12E	6400
14F8S	I	Dollarhide Summit	9	3N	15E	8420
14F1	I	Galena	4	6N	15E	7440
14F6S	I	Galena Snotel	4	6N	15E	7470
14F12S	I	Galena Summit	7	6N	15E	8780
14F5	I	Graham Ranch	10	5N	17E	6270
14F16S	I	Hyndman Creek	2	4N	19E	7440
14F7	I	Mascot Mine	8	4N	20E	7780
14F9	I	Mount Baldy	23	4N	17E	8920
14F11	I	Soldier Ranger Station	29	2N	14E	5740

LITTLE WOOD RIVER						
13F4S	I	Garfield Ranger Station	11	3N	21E	6560
13F5	I	Muldoon	26	3N	21E	6320
13F9RS	I	Swede Peak	4	3N	21E	7640

FISH CREEK						
13F10	I	Iron Mine Creek	33	3N	23E	6300
13F6	I	Telfer Ranch	7	2N	23E	5840

BOISE RIVER						
15F4S	I	Atlanta Summit	23	5N	10E	7580
15F2	I	Bad Bear	35	7N	6E	4940
16F4	I	Bogus Basin Road	32	5N	3E	5540

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
BOISE RIVER (cont.)						
14F10	I	Couch Summit	9	2N	14E	6840
16F1	I	Deadman Gulch	29	7N	4E	5600
15F14SR	I	Graham Guard Station	9	7N	10E	5690
15E9S	I	Jackson Peak	7	8N	9E	7070
15F1SR	I	Moores Creek Summit	19	7N	7E	6100
15F6S	I	Prairie	13	2N	7E	4800
15F3	I	Road Creek	5	5N	8E	5380
15F5SR	I	Trinity Mountain	6	3N	9E	7770

CANYON CREEK						
15F7S	I	Bennett Mountain	7	2S	9E	6560
15F12	I	Little Camas Flat	21	1S	9E	4940

PAYETTE RIVER						
15E11S	I	Banner Summit	11	11N	10E	7040
16F2	I	Bogus Basin	16	5N	3E	6340
15E8SR	I	Cozy Cove	17	11N	7E	5380
15E3	I	Crawford Ranger Station	21	14N	4E	4860
15E10	I	Deadwood Airstrip	8	11N	7E	5360
15E4S	I	Deadwood Summit	13	14N	7E	6860
15E1	I	Lake Fork	3	18N	4E	5290
16E1	I	Rock Flat Summit	1	18N	2E	5310
15D1S	I	Secesh Summit	4	21N	4E	6520
15D2	I	Squaw Meadow	17	21N	4E	5900
16E3	I	Tripod Summit	17	11N	3E	5260

WEISER RIVER						
16D1	I	Boulder Creek	16	20N	1W	5440
16E2	I	Placer Creek	15	17N	3W	5860
16E5S	I	Squaw Flat	32	17N	2E	6240
16D8S	I	West Branch	15	20N	1W	5560

MANN CREEK						
6E10S	I	Bear Saddle	29	15N	5W	6180
16E9	I	Mann Creek	20	15N	5W	6080
17E1	I	Robinson Creek Ridge	2	14N	6W	6220
16E8	I	Sturgill Ridge	28	15N	5W	6680
17E2	I	Thorson Cabin	12	14N	6W	5320

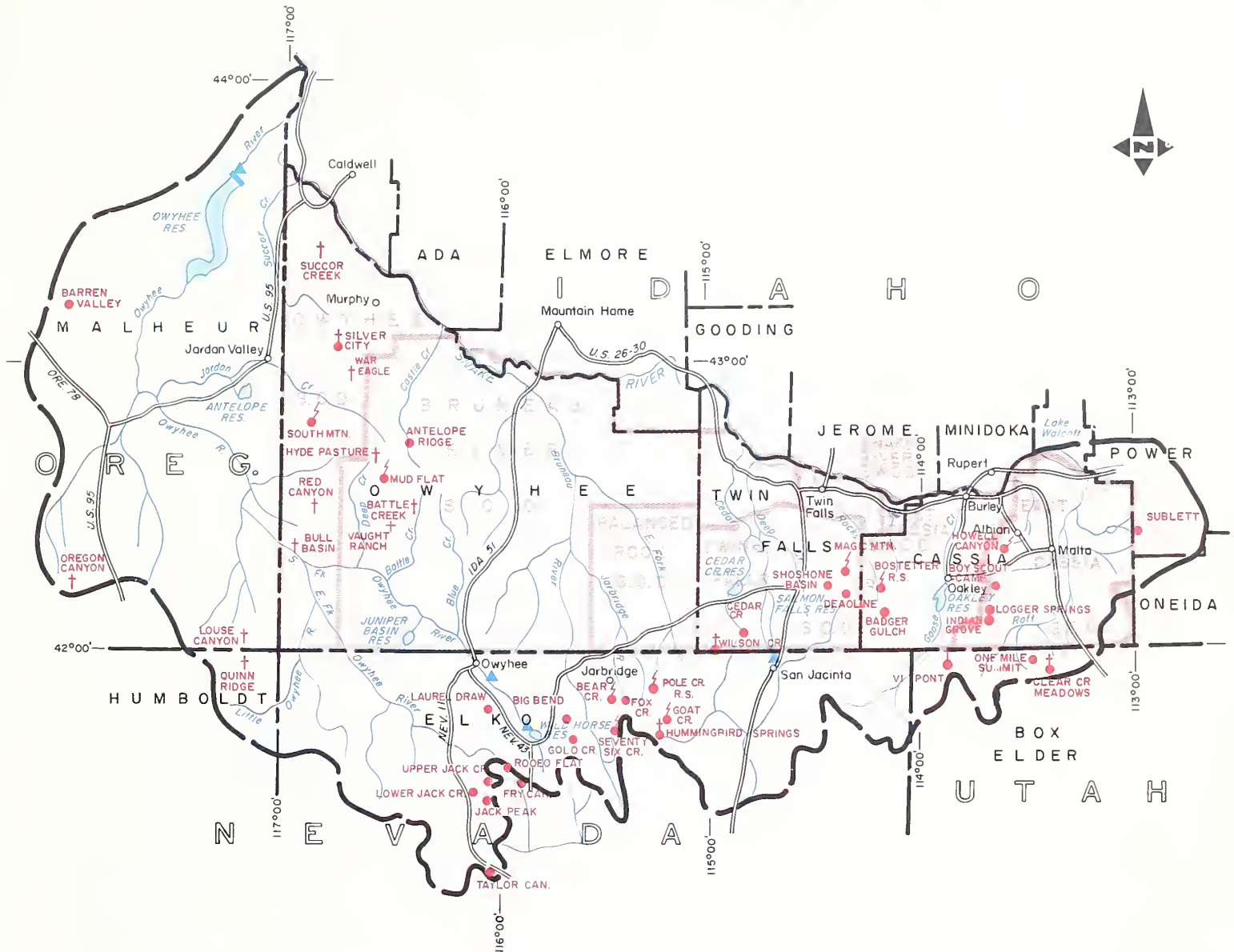
LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

MIDDLE SNAKE RIVER BASIN SOUTHSIDE

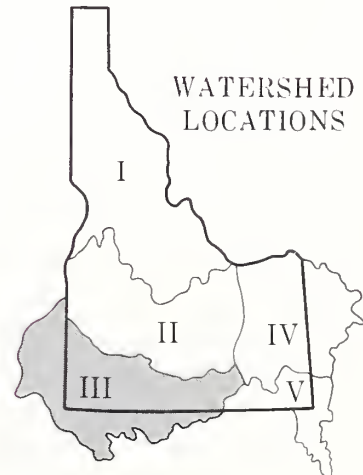
25 0 25 50 75
SCALE IN MILES



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forcast Point
- Snow Course
- Snow Course and SNOTEL Site
- † Aerial Snow Depth Gage

WATERSHED LOCATIONS



INDEX to SNOW COURSES

MIDDLE SNAKE RIVER BASIN
SOUTHSIDE

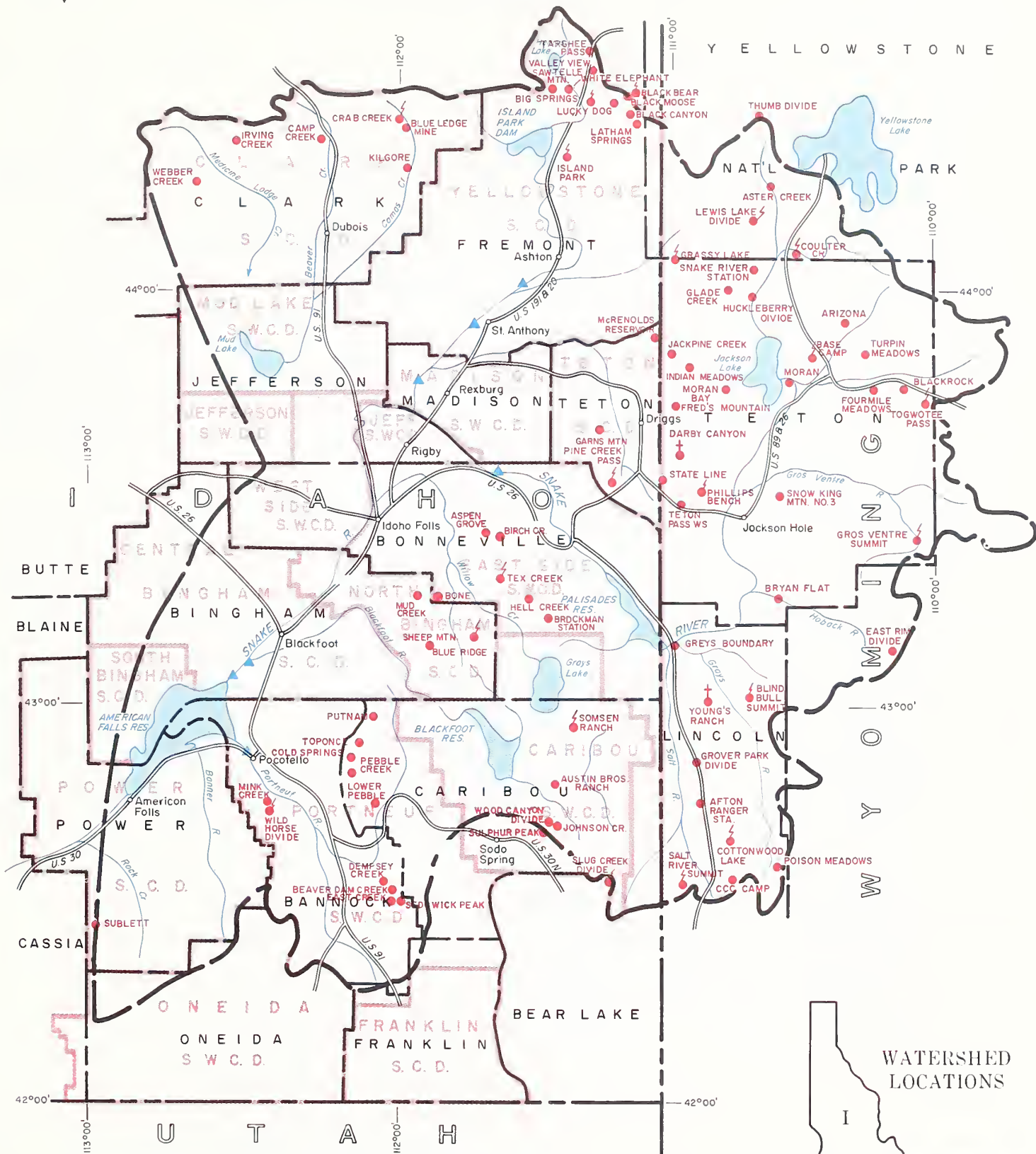
No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	And	Long.	
RAFT RIVER						
13G2	I	Boy Scout Camp	8	14S	24E	7740
13H2	U	Clear Creek Meadows	26	14N	14W	9420
13G1S	I	Howell Canyon	2	13S	24E	7980
13G4	I	Indian Grove	14	15S	23E	7560
13G3	J	Logger Springs	2	15S	23E	8120
13H1	U	One Mile Summit	17	14N	14W	7330
12G8	I	Sublett	17	12S	30E	5950
GOOSE - TRAPPER CREEK						
14G3	I	Badger Gulch	24	15S	19E	6660
14G1S	I	Bostetter Ranger Station	35	14S	19E	7500
13H3A	U	Vi Pont	17	14N	17W	7670
SALMON FALLS CREEK						
14G5	I	Cedar Creek	26	15S	13E	6800
14G4	I	Deadline	25	14S	18E	6900
15H13S	N	Goat Creek	31	46N	60E	8880
14G2S	I	Magic Mountain	25	14S	18E	6880
14G6	I	Shoshone Basin	24	14S	17E	5810
15G2	I	Wilson Creek	24	16S	12E	7500
BRUNEAU RIVER						
15H1S	N	Bear Creek	31	46N	58E	8040
15H2	N	Fox Creek	33	46N	58E	6750
15H15	N	Hummingbird Springs	12	45N	59E	8870
15H14S	N	Pole Creek Ranger Station	13	46N	50E	8360
15H3S	N	Seventy-six Creek	6	44N	58E	7100
OWYHEE RIVER						
16G6	I	Antelope Ridge	35	8S	1W	6140
18F5	O	Barren Valley	26	17S	38E	4200
16G9A	I	Battle Creek	10	11S	1E	5720
15H4	N	Big Bend	30	45N	56E	6700
16G10A	I	Bull Basin	29	12S	5W	5460
15H7	N	Fry Canyon	31	43N	54E	6700
15H5	N	Gold Creek	31	45N	56E	6600
16G5A	I	Hyde Pasture	31	8S	2W	5760
16H4	N	Jacks Peak	28	42N	53E	8420
16H5	N	Laurel Draw	20	45N	53E	6700
17G4A	O	Louse Canyon	27	40S	44E	6440
16H1M	N	Lower Jack Creek	18	42N	53E	6800
16G7S	I	Mud Flat	34	9S	2W	5730
17G5A	O	Oregon Canyon	9	40S	40E	6950
17H6A	N	Quinn Ridge	9	47N	41E	6300
16G11A	I	Red Canyon	32	11S	4W	6650
15H6M	N	Rodeo Flat	36	43N	53E	6800
16F3	I	Silver City	7	5S	3W	6400
16G1S	I	South Mountain	35	7S	5W	6500
16F6A	I	Succor Creek	25	3S	5W	6100
15H9M	N	Taylor Canyon	35	39N	53E	6200
16H2	N	Upper Jack Creek	9	42N	53E	7250
16G12A	I	Vaught Ranch	10	11S	1W	5950
16G13A	I	War Eagle	20	5S	3W	7280

LEGEND

Numbering System (example)

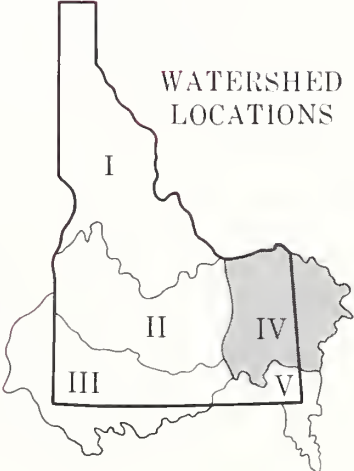
- 10J7 Snow course only
- 10J7A Snow course and/or aerial marker
- 10J7S Snow course and snotel site
- 10J7R Radioactive gage

UPPER SNAKE RIVER BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry.
- County Boundary
- Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- Aerial Snow Depth Gage



INDEX to SNOW COURSES

UPPER SNAKE RIVER BASIN

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
SNAKE RIVER-WYOMING						
10C4	Wy	Afton Ranger Station	30	32N	118W	6200
10F1	Wy	Arizona	3	46N	115W	6850
10E8	Wy	Aster Creek	44°17'		110°38'	7700
10F2S	Wy	Base Camp	20	46N	113W	6900
10F7S	Wy	Blackrock	4	44N	111W	8600
10G2S	Wy	Blind Bull	6	34N	115W	8750
10F14	Wy	Bryan Flat	9	38N	115W	6250
10C7	Wy	CCC Camp	9	29N	118W	7500
10C5S	Wy	Cottonwood Lake	25	31N	118W	7500
10E10S	Wy	Coulter Creek	44°09'		110°33'	7600
10F17	Wy	East Rim Divide	32	37N	111W	7950
10F6	Wy	Four Mile Meadows	35	45N	112W	7770
10E13	Wy	Clade Creek	12	48N	116W	7200
10F18	Wy	Creys Boundary	33	37N	118W	5800
10F19S	Wy	Cros Ventre Summit	36	40N	111W	8750
10C3	Wy	Crover Park Divide	27	33N	118W	7500
10E14	Wy	Huckleberry Divide	32	48N	115W	7300
10E9S	Wy	Lewis Lake Divide	44°13'		110°40'	7900
10F4	Wy	Moran	8 & 17	45N	114W	6800
10F3	Wy	Moran Bay	14	45N	116W	6800
10C6	Wy	Poison Meadows	29	30N	116W	8500
10C8S	Wy	Salt River Summit	32	29N	118W	7900
10E12	Wy	SNAKE RIVER STATION	9	48N	115W	6780
10F20	Wy	Snow King Mountain #3	4	40N	117W	7600
10E7	Wy	Thumb Divide	44°22'		110°35'	7900
10F9S	Wy	Togwotee Pass	29	44N	110W	9600
10F5	Wy	Turpin Meadows	14	45N	112W	6930
10C1A	Wy	Young's Ranch	26	34N	116W	6530

HENRY'S FORK RIVER

11E9S	I	Big Springs	4	13N	44E	6400
11E35S	M	Black Bear	27	15S	5E	7950
11E18	I	Black Canyon	11	13N	45E	7960
11E19	I	Black Moose	33	14N	45E	8160
10E15S	Wy	Crassy Lake	6	48N	117W	7230
11E10S	I	Island Park	28	13N	43E	6290
11E16	I	Latham Springs	9	13N	45E	7630
11E14	I	Lucky Dog	2	13N	44E	6860
11E32	I	Sawtell Mountain	7	14N	43E	8720
11E34	I	Targhee Pass	32	16N	44E	6980
11E8	I	Valley View	12	15N	43E	6680
11E36	I	White Elephant	17	14N	43E	7710

TETON RIVER

10F21	Wy	Darby Canyon	28	43N	118W	8250
10F22	Wy	Freds Mountain	12	44N	118W	8150
11F13	I	Carns Mountain	20	4N	44E	8300
10F25	Wy	Indian Meadows	31	46N	117W	8240
10F26	Wy	Jackpine Creek	15	46N	118W	7350
11F12	I	McRenolds Reservoir	5	7N	46E	6720
10F23S	Wy	Phillips Bench	43°31'		110°55'	8200
11F2	I	Pine Creek Pass	24	3N	44E	6810
11F1	I	State Line	32	3N	46E	6660
10F13	Wy	Teton W.S.	43°30'		110°59'	7740

No.	State	Name	Sec. Lat.	Twp. or And	Rge. Long.	Elev
CAMAS-BEAVER CREEK						
11E11	I	Blue Ledge Mine	21	13N	38E	6900
12E3	I	Camp Creek	21	13N	36E	6580
11E17S	I	Crab Creek	21	13N	38E	6860
11E12	I	Kilgore	6	12N	39E	6200

MEDICINE LODGE CREEK

12E4	I	Irving Creek	20	13N	33E	7035
12E5	I	Webber Creek	23	12N	32E	6700

WILLOW CREEK

11F10	I	Aspen Grove	36	2N	41E	6500
11F3	I	Birch Creek	36	2N	41E	6800
11F8	I	Bone	29	1S	40E	6200
11F16	I	Brockman Station	19	2S	43E	6430
11F15	I	Hell Creek	27	1S	42E	7350
11F14	I	Mud Creek	4	2S	39E	7100
11F11SR	I	Sheep Mountain	30	2S	41E	6570
11F5SR	I	Tex Creek	36	1N	41E	6650

BLACKFOOT RIVER

11C3	I	Austin Brothers Ranch	28	7S	43E	6400
11F17	I	Blue Ridge	35	2S	39E	6780
11C22	I	Johnson Creek	4	9S	43E	6730
11C5S	I	Slug Creek Divide	15	10S	44E	7225
11C1S	I	Somsen Ranch	25	5S	43E	7000
11C19	I	Sulphur Peak	8	9S	43E	7070
11C23	I	Wood Canyon Divide	5	9S	43E	7450

FORT PORTNEUF RIVER

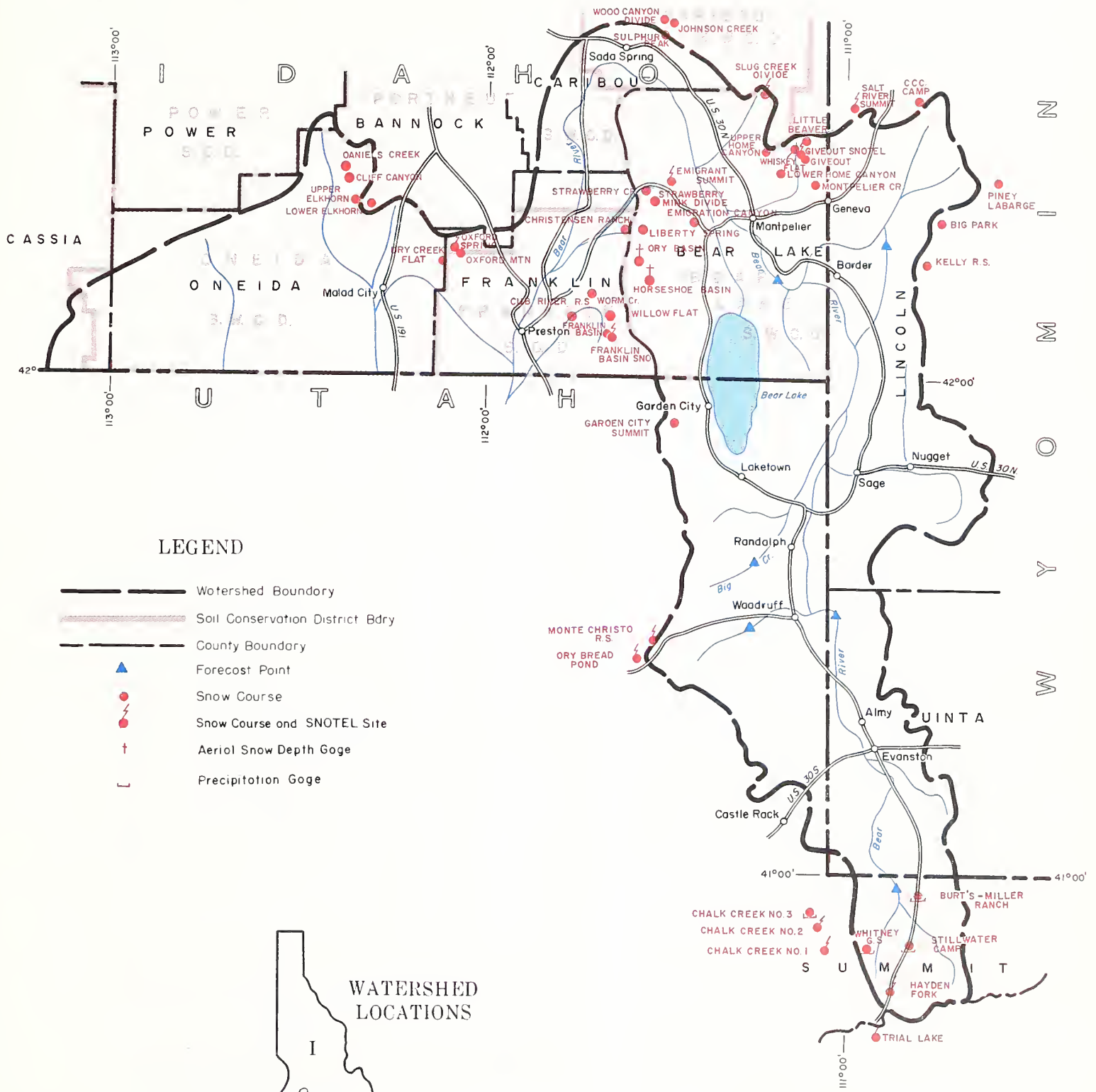
12C7	I	Beaverdam Creek	22	10S	38E	6120
12C16	I	Cold Springs	15	7S	37E	7000
12C5	I	Dempsey Creek	18	10S	38E	6100
11C24	I	East Creek	26	10S	38E	7000
12C6	I	Lower Pebble	7	8S	38E	5780
12C1	I	Mink Creek	33	7S	34E	6410
12C2	I	Pebble Creek	34	7S	37E	6550
12C14	I	Putnam	2	6S	37E	7220
11C17	I	Sedgwick Peak	30	10S	39E	7850
12C15	I	Toponce	23	6S	37E	6160
12C17S	I	Wildhorse Divide	4	8S	34E	6490

LEGEND

Numbering System (example)

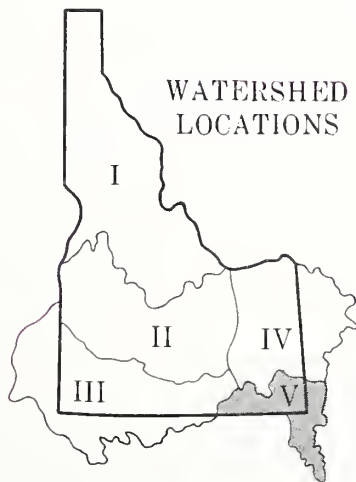
10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage

GREAT BASIN



LEGEND

- Watershed Boundary
- Soil Conservation District Bdry
- County Boundary
- ▲ Forecast Point
- Snow Course
- Snow Course and SNOTEL Site
- † Aerial Snow Depth Gage
- ⌈ Precipitation Gage



INDEX to SNOW COURSES

GREAT BASIN

No.	State	Name	Sec.	Twp.	Rge.	Elevation
			Lat.	or And	Long.	
BEAR RIVER						
10G11	Wy	Big Park	7	27N	117W	8700
11H13P	U	Dry Bread Pond	19	8N	4E	8230
11G7	I	Emigration Ganyon	24	12S	42E	6500
11H7P	U	Garden City Summit	35	14N	4E	7600
10J6P	U	Burts-Miller Ranch	19	3N	10E	7900
10J7P	U	Hayden Fork	1	1S	9E	9300
10G12	Wy	Kelly Ranger Station	13	26N	118W	8200
11H12P	U	Monte Cristo R. S.	3	8N	4E	8960
10G10	Wy	Piney LaBarge	19	29N	114W	8820
10J17P	U	Stillwater Camp	32	2N	10E	8550
10J28P	U	Whitney G. S.	4	1N	9E	9300

MONTPELIER CREEK						
11G16	I	Giveout	2	12S	45E	6840
11G25S	I	Giveout Snotel	2	12S	45E	6930
11G20	I	Little Beaver	27	11S	45E	6970
11G27	I	Lower Home Canyon	17	12S	45E	7640
11G18	I	Montpelier Creek	14	12S	45E	6540
11G26	I	Upper Home Canyon	31	11S	45E	8560
11G21	I	Whiskey Flat	26	11S	45E	6960

MINK CREEK						
11G11	I	Christensen Ranch	27	13S	41E	5560
11G14A	I	Dry Basin	30	13S	42E	7820
11G6S	I	Emigrant Summit	21	12S	42E	7390
11G15A	I	Horseshoe Basin	31	13S	42E	8000
11G13	I	Liberty Spring	7	13S	42E	8600
11G9	I	Strawberry Creek	9	13S	41E	5820
11G10	I	Strawberry Mink Divide	14	13S	41E	6720

CUB RIVER						
11G12	I	Gub River Ranger Station	9	15S	41E	5450
11G8	I	Franklin Basin	1	16S	41E	8040
11G2S	I	Franklin Basin Sno	7	16S	42E	8170
11G4	I	Willow Flat	11	15S	41E	6070
11G28	I	Worm Creek	28	14S	41E	6620

MALAD RIVER						
12G13	I	Gliff Canyon	13	12S	35E	7200
12G12	I	Daniels Creek	11	12S	35E	6270
12G4	I	Dry Creek Flat	33	13S	37E	6360
12G11	I	Lower Elkhorn	30	12S	36E	6960
12G3	I	Oxford Mountain	27	13S	37E	6800
12G18S	I	Oxford Spring	27	13S	37E	6740
12G10	I	Upper Elkhorn	25	12S	35E	7140

LEGEND

Numbering System (example)

10J7	Snow course only
10J7A	Snow course and/or aerial marker
10J7S	Snow course and snotel site
10J7R	Radioactive gage
10J7P	Precipitation gage

SNOW

DRAINAGE BASIN and or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average ¹
NAME	Elevation					
Above Burke	4100	1/2	11	3.0	5.0	9.3*
Antelope Ridge	6140	1/1	0	0.0	--	--
Atlanta Summit	7600	12/29	31	10.1	10.7	15.2*
Atlanta Townsite	5280	12/31	11	3.0	--	--
Bad Bear	4940	1/2	11	3.7	4.2	5.2*
Banner Summit	7040	12/31	36	11.7	10.1	--
Bear Basin	5350	12/29	25	7.0	--	--
Bear Canyon	7900	12/30	29	8.2	4.0	--
Bear Saddle	6180	12/27	23	7.5	--	--
Bennett Mountain	6560	12/29	15	5.4	--	--
Benton Meadow	2370	12/30	0	0.0	1.1	2.9
Benton Spring	4920	12/30	19	6.3	5.9	8.3
Big Creek Summit	6580	12/28	39	12.2	11.8	14.7
Big Springs	6500	12/30	23	6.7	3.9	7.8
Birch Creek	6800	12/31	0	0.0	3.0	--
Blue Ridge	6780	12/31	0	0.0	4.0	--
Bogus Basin	6340	12/29	16	5.0	8.3	9.6
Bogus Basin Road	5540	12/29	0	0.0	2.0	2.9*
Bone	6200	12/31	0	0.0	0.9	3.0*
Bostetter Ranger Station	7500	12/29	16	4.5	--	--
Boulder Creek	5440	12/31	26	8.2	5.1	10.2
Breezy Saddle	5010	12/31	20	6.0	6.8	--
Brockman Station	6430	12/31	7	2.3	2.6	--
Brundage Mountain	7560	12/29	51	18.2	19.5	18.9*
Camp Creek	6580	12/31	13	3.0	2.2	4.8
Cayuse Airstrip	3500	12/31	4	1.3	1.8	5.1*
Copper Basin	7640	12/30	14	4.4	0.5	--
Couch Summit	6840	12/29	27	8.5	5.6	7.2*
Cozy Cove	5380	12/31	19	5.6	6.0	7.0
Crater Meadows	5960	12/31	29	11.9	14.0	18.3*
Crawford Ranger Station	4860	12/29	8	2.1	3.3	3.0*
Crooked Fork	3610	12/30	7	2.6	2.0	5.1*
Cub River Ranger Station	5450	12/27	5	1.5	2.5	3.4*
Darby Canyon (Wy)	8250	1/2	22	6.1	6.0	9.5*
Deadline	6900	12/31	17	5.4	7.6	8.7*
Deadwood Airstrip	5360	12/31	18	6.2	5.5	6.3*
Deadwood Summit	6860	12/31	57	18.4	15.2	22.7*
Dollarhide Summit	8420	12/30	28	8.2	7.6	12.4*
Elk Butte	5550	12/31	21	6.0	--	--
Emigrant Summit	7390	12/29	15	4.2	5.2	9.4*
Fairview Guard Station	6750	12/31	11	2.0	--	1.8*
Fish Lake Airstrip	5650	12/31	27	9.6	11.7	16.1*
Forty-nine Meadows	4830	12/31	21	6.0	7.0	--
Franklin Basin	8040	12/27	14	3.4	4.1	9.9
Franklin Basin Snotel	8170	12/27	18	4.8	--	--
Freds Mountain (Wy)	8150	12/31	26	6.5	6.0	8.6*
Galena	7440	12/31	29	8.6	6.1	7.8
Galena Summit	8780	12/31	32	9.6	6.9	10.4

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average /
Garfield Ranger Station	6560	12/30	17	5.2	4.0	4.1*
Gibbons Pass (Mt)	7100	12/29	35	10.5	5.8	9.1
Giveout	6860	12/30	11	2.2	2.3	4.8
Goat Creek (Nv)	8880	12/30	11	2.3	6.6	7.8*
Graham Guard Station	5690	12/31	18	4.9	5.0	--
Graham Ranch	6270	12/31	25	6.2	4.1	5.6
Grassy Lake (Wy)	7265	12/29	38	10.1	7.1	14.4
Hell Creek	7350	12/31	17	4.9	3.2	--
Hemlock Butte	5810	12/31	24	7.9	13.5	20.8*
Hilts Creek	8000	12/29	20	6.0	--	--
Hoodoo Basin (Mt)	6000				18.8	22.3*
Hoodoo Creek (Mt)	5900				14.8	18.8*
Howell Canyon	7980	12/30	15	4.7	7.5	10.5
Hyndman Creek	7740	12/30	25	7.3	--	--
Idaho City	4000	1/2	6	2.2	--	--
Island Park	6315	12/30	22	6.1	4.0	6.2
Jackpine Creek (Wy)	7350	1/2	16	4.8	5.2	--
Jackson Peak	7070	12/31	35	11.1	9.4	15.1*
Kilgore	6320	12/31	17	4.0	2.6	4.5
Lake Fork	5290	12/28	18	4.9	4.3	6.5*
Little Beaver	6970	12/30	9	1.9	2.0	5.7
Little Camas Flat	4940	12/29	10	4.2	--	--
Lolo Pass	5250	12/30	21	6.7	8.8	11.5*
Lookout	5140	1/2	25	8.0	10.4	13.7
Lost Garfield	6600	12/31	10	2.0	--	1.6*
Lost Lake	6110	12/31	46	15.1	16.0	--
Lost Wood Divide	7900	12/30	31	9.4	6.4	--
Magic Mountain	6880	12/31	18	5.4	6.3	7.5*
Mascot Mine	7780	12/30	22	6.8	4.5	--
McRenolds Reservoir	6720	1/2	19	5.2	4.6	--
Mill Creek Summit	8800	12/29	30	8.6	6.5	13.3*
Montpelier Creek	6540	12/30	5	1.3	1.4	3.4
Moonshine	7440	12/31	15	4.4	--	4.3*
Moores Creek Summit	6100	1/2	28	9.2	9.2	13.0
Moose Creek	6200	12/31	23	7.4	3.2	6.9*
Morgan Creek	7600	12/30	16	4.3	3.8	2.6*
Mount Baldy	8920	12/30	30	9.0	6.8	8.7*
Mud Creek	7100	12/31	0	0.0	3.7	--
Mud Flat	5730	1/1	5	1.5	--	--
Muldoon	6320	12/30	12	3.0	3.0	3.2*
Packsaddle Springs	8200	1/3	22	7.1	--	--
Pierce Ranger Station	3080	12/29	0	0.0	--	4.2
Pine Creek Pass	6810	12/30	16	4.8	3.3	6.9
Pole Creek Ranger Station	8360	12/30	14	4.0	9.0	9.1*
Rammel Mountain	8240	1/2	35	10.0	--	--
Rock Flat Summit	5310	12/29	24	6.0	6.0	7.1
Savage Pass	6170	12/30	28	9.6	7.7	10.2*
Sawmill Canyon	7000	12/31	13	3.5	--	3.3*

(b) 1963-77, 15 year period. # Not located directly on this drainage. * Estimated 1963-77 15 year Average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average ^b
Sawtell Mountain	8720	12/30	39	11.8	10.6	14.1*
Schweitzer Bowl	4800	12/31	30	10.2	11.0	13.0*
Schweitzer Ridge	6200	12/31	48	19.2	19.7	20.3*
Secesh Summit	6520	12/29	42	13.6	10.5	16.6
Shanghai Summit	4570	12/31	0	0.0	5.0	9.9*
Sheep Mountain	6570	12/31	0	0.0	2.7	--
Sherwin	3200	12/30	0	0.0	1.8	5.5*
Slug Creek Divide	7230	12/29	14	3.4	3.7	7.5*
Soldier Ranger Station	5740	12/29	15	5.3	5.5	4.9*
Somsen Ranch	6840	12/29	13	3.3	4.0	5.7*
South Mountain	6500	1/1	6	3.0	6.6	5.2
Squaw Flat	6240	12/28	28	8.8	--	--
Squaw Meadow	5900	12/29	41	15.1	11.8	16.8*
State Line	6660	12/30	14	4.3	3.0	5.9
Stickney Mill	7430	12/30	16	4.6	2.3	--
Swede Peak	7640	12/30	24	7.1	5.0	8.4*
Targhee Pass	6980	12/30	15	3.7	2.7	6.2*
Tex Creek	6650	12/31	0	0.0	3.0	--
Trinity Mountain	7770	12/29	35	12.3	13.5	15.6*
Valley View	6680	12/30	17	4.5	2.8	6.4
Vienna Mine	8960	12/31	41	12.3	10.4	--
West Branch	5560	12/31	31	9.9	--	3.9*
Wet Creek Summit	7680	12/29	17	4.8	--	4.4*
Whiskey Flat	6960	12/30	6	1.7	1.2	3.6
White Elephant	7710	12/30	31	8.0	6.3	8.9*
Willow Flat	6070	12/27	8	3.1	3.4	5.9*

(b)1963-77, 15 year period. #Not located directly on this drainage. * Estimated 1963-77 15 year average. (A) Aerial observation Water content estimated. (SP) Pressure Pillow snow-water equivalent. (R) Radioactive Gage snow-water equivalent.

GOVERNMENT AGENCIES

States:

Idaho Department of Water Resources
State of Idaho Department of Fish and Game
University of Idaho
Idaho State University
Montana Agricultural Experiment Station
Montana State Water Conservation Board
Montana Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon Cooperative Snow Surveys
Oregon State Engineer and Corps of
State Watermasters
Utah Cooperative Snow Surveys
Wyoming Cooperative Snow Surveys

Federal:

U. S. Army Engineers

U. S. Department of Agriculture
Forest Service
ESCS Crop Reporting Service
SEA Agricultural Research

U. S. Department of Commerce
NOAA, National Weather Service

U. S. Department of the Interior
Bonneville Power Administration
Water and Power Resources Service
Fish and Wildlife Service
Water Resources Division, Geological Survey
National Park Service
Bureau of Land Management

PUBLIC UTILITIES

Washington Water Power Company
Idaho Power Company

ORGANIZED PUBLIC AGENCIES

Big Lost River Irrigation District
Blaine Soil Conservation District
Boise Project Board of Control
Idaho Water District #01
Little Wood River Irrigation District
Mann Creek Irrigation District
Salmon Falls Creek Irrigation Company
Twin Falls Soil Conservation District
Big Wood Irrigation Company
Owyhee Project - North & South Board of Control
Valley Soil Conservation District
Portneuf Soil and Water Conservation District
East Cassia Soil and Water Conservation District
West Cassia Soil and Water Conservation District
Camas Soil and Water Conservation District

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

ROOM 345
304 N. 8TH ST.
BOISE, IDAHO 83702

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

U.S. DEPT. OF AGRICULTURE
NAT'L AGRIC. LIBRARY
RECEIVED

FEB 17 '81

PROCUREMENT SECTION
CURRENT SERIAL RECORDS

FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

*"The Conservation of Water begins
with the Snow Survey"*

POSTAGE AND FEES PAID
U. S. DEPARTMENT OF
AGRICULTURE
AGR-101



FIRST CLASS MAIL

USDA NATIONAL AGRICULTURAL
LIBRARY
CURRENT SERIAL RECORD
BELTSVILLE, MARYLAND 20705